

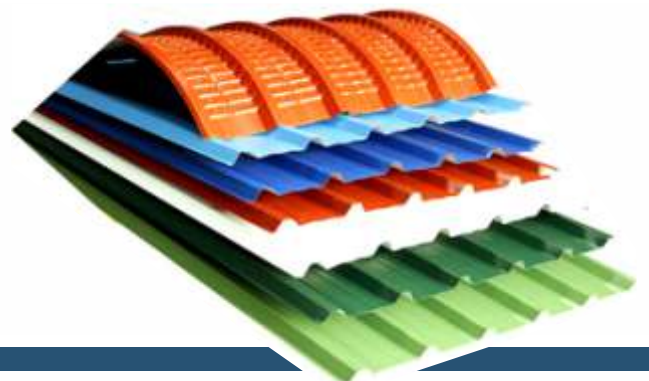
The Complete Solution of Roofing Infrastructure



GOLDEN INDUSTRIES

Prime Turbo Ventilators

**EFFICIENT, COST EFFECTIVE
VENTILATION & ROOFING
SYSTEM**



PRIME TRUBOVENT

About us

Golden Industries is one of the prominent Manufacturers and Suppliers of Turbo Air Ventilators, FRP Products, Pre Painted Galvanized / Galvalume Roofing Sheets, Corrugated Polycarbonate Roofing Sheets, Profile Sheets, Industrial Cladding Sheets, Cladding Carved Sheets. Established in 2001, the company has been successfully catering to the needs of its clients. We adhere to Highest Standards of Quality both in input materials and Workmanship, Ensuring that all Quality and Requirements of our Clients are met & surpassed every single time. We are dedicated to, Ethical Business Practical, transparent dealings. We have established our selves as a well reputed Companies in our line of activity.

We are a professionally manage Organization Dedicated to offering Pollution Control Equipment that make optimum use of renewable energy resources. Moreover, our chief concern lies in ensuring maximum satisfaction of our clients. For this, we make efforts in providing our comprehensive products within stipulated time frame and budget. This Assists us in Building casting relations with our clients . Who are of most valuable to us.



What is Ventilation ?

Ventilation means "To let Fresh air Into a room or a building by a device such as a fan."

Ventilation is needed for one or more of the following reason:



- Trapped Air accumulates heat.
- Trapped Air get contaminated with toxic fumes, particles and odors.
- Trapped Air gets depleted in oxygen causing stuffiness.
- Trapped Air causes deterioration in quality of materials manufactured and stored.
- Trapped Air Results in lower productivity, restlessness and other undesired effects.
- Smoke and fumes from fire choke inhabitants and cause the fire to spread.

Hot Air Rises to The Top and Cool Air Stage at The Bottom Turbo Air Ventilators Assist In Removing This Rising Hot Air Out The Building By Creating A Suction With There Rotation There By Creating Space For Cool Fresh Air To Enter The Building Ensuring Proper Ventilation Cycle & Pleasant Working Atmosphere At Factory Floor.

Working Principal of PRIME TURBOVENT

It is a combination natural and forced air ventilation system. It is a free revolving roof ventilator which works on free wind energy. It functions as a natural ventilator when there is a difference in thermal or wind pressure within the building, cooler air from outside will rush into the negative space the building in order to maintain an equilibrium.

Special Features of PRIME TURBOVENT

- Light weight, strong and durable construction for resistance against extreme climate condition.
- Maintenance free, "fit and forget" pin point bushing system eliminates bearing and ensures maintenance free life.
- Easy and quick installation contains 36 Airfoil blades with groove to deflect eater an dust.
- Whisper quiet in operation
- Rigid spider type frame construction to with stand cyclone, Storm and twister.
- Enhances the architectural and aesthetic appearance of the building.
- Dynamically balanced for frictionless rotation also at high wind velocity.
- Continuous positive extraction by the TURBOVENT eliminates heat, dust, fumes and creates a down - drought into the building to ensure a cleaner, healthier and more comfortable working environment through proper ventilation.
- the FRP Venturi Dome used with TURBOVENT Provides natural light during day time. thus reducing lighting expenses.
- Increases productivity by promoting healthier and more comfortable working environment through proper ventilation.
- As it is non conventional device, it qualifies for accelerated depreciation 80% as per the section 32 of Indian income Tax Act.
- Globally accepted Technology. No operating cost as it works on free wind energy. Dual benefit of natural ventilation and natural daylight at no cost.
- It is a free rotating ventilator that provides fresh air in your room space & living area whole year round 24hrs. a day at zero operating cost.
- Variety of models available to suite different application.
- Specially designed S.S. 304 models are available for Chemical and pharmaceuticals industry.
- Proudly made in India to world standards.

Quick Calculation :

Calculations to decide the number of TURBOVENTS.

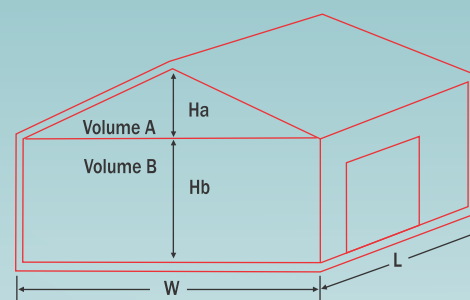
- 1 Determine the volume of the building in Cubic Meter :
 Volume of Section A = $0.5 \times L \times W \times H_a$ (all dimensions in Meters)
 Volume of Section B = $L \times W \times H_b$ (all dimensions in Meters)
 Total building Volume = Volume of Section A + Volume of Section B
 Note : For Factories, the combined Volume A + B should be used.

- 2 Calculate the number of Ventilators Required

$$\text{METRIC} = \frac{V \times A/\text{ch}}{\text{EX}/\text{cx} \times 3.6}$$

Where:

V=Volume of building or roof space
 A/ch=Air changes per hour (refer ACH table)
 EX/c=Exhaust capacity of ventilator (refer Exhaust Capacity table above)



EXHAUST CAPACITY

Wind Velocity	Turbovent - 21 (Exhaust Capacity in litres per second)	Turbovent - 24 (Exhaust Capacity in litres per second)
04 Kmh	600	700
08 Kmh	800	920
12 Kmh	1300	1500
18 Kmh	1800	2080
24 Kmh	2300	2650





Golden Industries is trusted us our clients manufacturer and supplier of Pre Painted Galvanized Sheet, which are designed with precision using best quality raw materials that ensure their longevity and reliability in adverse industrial applications.

Specifications :

- Top Coat of pre painted sheets consists of
- Base Metal – steel
- Metallic coating of either zinc or aluminum zinc coating for corrosion resistance
- Chromate coating for good adhesion purpose
- Primer coating for good undercut corrosion resistance, good adhesion & smoothness to topcoat finish
- Top finish coat to provide color, pleasing appearance

Base metal coat : galvanized (gi)- confirm to jis 3312
Galvalume (gl) : confirm to jis 3322,confirm to astm a792
Galvanized (gi) : 0. 47 mm, 0. 50 mm
Galvalume (gl) : 0. 47 mm,0. 50 mm

Bottom Coat of pre – painted sheet consists of

Base metal

Metallic coating

Top finish coat

Important criteria for selecting pre painted sheet is based on base coat

GI base (galvanized base – zn)

Specialty of zinc

Zinc having self physical property called cathodic reaction

GL base (galvalume base – alzn)

Specialty of al- zn

Raw Material Used :

Base Metal : high tensile cold rolled steel.

Raw material thickness available





Fundamental Product Structure

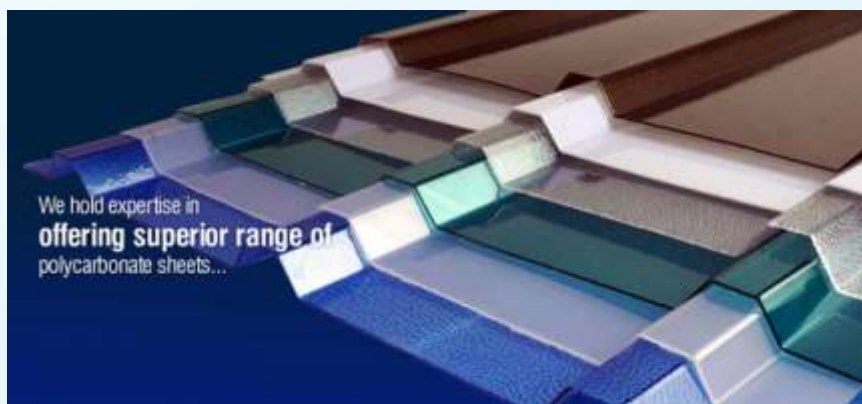
- A- Cold rolled Steel.....Substrate
- 1- Al-Zinc alloy coat
- 2- Pre-treatment (chromating)
- 3- Primer
- 4- Top coat
- 5- Backer coat
- 6- Guard film (optional)



Features :	Benefits
* Continuous length profile	* Cost efficiency * Reduced fixing time
* Light weight	* Approximately half the carrying structure compared to clay/concrete tiles * Reduced transportation costs
* High Strength	* Profiles Provide excellent spanning ability and remarkable recovery after excessive load
* Economical	* The long spanning ability and more coverage per unit mass permit wide support spacing, enabling supporting structure economies.
* Aluminum Zinc Steel Sheets Galvanized Steel Sheets	* Provides a life long roofing product (no replacement headaches)
* Option of wide colour range	* Invaluable asset in designing and creativity

Details	Pre Painted Galvanized	Color Coated Galvalume	AlZn/Bare Galvalume
Combination	99.5%ZN	55%AL 43.4%ZN&1.6%SI	55%AL 43.4%ZN&1.6%SI
Coating Std	Asper u 277	AS 1397-93	AS 1397-93
Coating Mass	120 gsm/col:30-35u	150 gsm/col:30-35u	AZ 150 gsm
Base Metal	High Tensile & Soft Material/CR	High Tensile /CR	High Tensile /CR
Nominal Thickness (TCT)	0.40TCT,0.45TCT mm, 0.47TCT&0.50TCT mm	0.47TCT&0.50TCT mm	0.47TCT&0.50TCT mm
Yield Strength	240,345&550 Mpa	240,345&550 Mpa	550 Mpa
Paint	• Regular modified Polyester system	• Regular modified Polyester system	-----
	• Silicon modified Polyester system	• Silicon modified Polyester system	
	• PolyVinyl Di fluoride Ployester system	• PolyVinyl Di fluoride Ployester system	

Corrugated Polycarbonate Roofing Sheet



A range of solid Polycarbonate Corrugated Roofing Sheets with wave or trapezoidal profiles, used both for completely transparent skylight and in combination with aluminum and steel roofing. All sheets are co-extruded with UV absorber on the side to be exposed to the sun. The best solution for shelters and greenhouses.

Roofing & Contractor

We are a Gujarat based company engaged as a reliable Roofing Contractor. We undertake a wide range of Contractor ranging from commercial roofing to industrial roofing to residential roofing. Owing to our rich experience, we undertake the new construction, re-roofs, roof maintenance, or roof repairs. We are backed by a team of skilled and experienced professionals who examine every aspect of the project and provide the best solution. We use different products to make a great roof for our clients. We also have energy efficient roofing that offers high reflectivity. Our efficient roofing systems have set the standard for single-ply roof reflectivity leading to better energy savings. We have taken many projects and have excelled in our services. Our Service is demanded all across the country and we provide our services in Gujarat, Assam, Bihar, Gujarat, Haryana, Meghalaya, Mizoram, Nagaland, Tamil Nadu, and many more.



We provide Roofing Contract Services for the following :

- Roof installation work**
- Asbestos removal**
- Roof rebuilds and new builds**
- Roof repairs**
- Metal cladding**
- Guttering installation**
- Roof glazing**
- Roof contractors**
- Roof replacement**
- Steel roofing contractors**

We hope that you consider us at Roofing for your next metal roofing project. We are roofing contractor experts and have done many such projects. If you have any questions, don't hesitate to contact us!



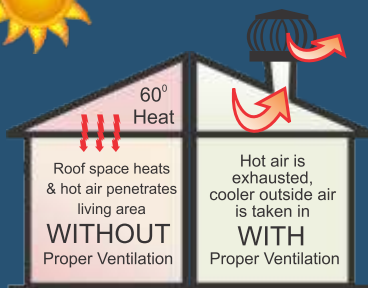
Our Client



Our Projects :



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GOLDEN INDUSTRIES

MFG. OF TURBO AIR VENTILATORS, COLOUR PROFILE ROOFING SHEETS & ALL TYPE OF INDUSTRIES ROFFING WORKS.

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